



Infrared Thermocouple Data Logger Part of the NOMAD® Family



OM-CP-IRTC110 data logger with infrared thermocouple, \$299, shown larger than actual size.

OM-CP-IRTC110
Starts at
\$299



- ✓ 10-Year Battery Life
- ✓ Wide Temperature Range
- ✓ Uses Type K Infrared Thermocouple
- ✓ NIST Traceable Calibration
- ✓ Real-Time Operation
- ✓ Programmable Start/Stop Time
- ✓ Miniature Size

The OM-CP-IRTC110 is a miniature, battery powered, stand alone, infrared thermocouple based temperature recorder, for nearly instantaneous, non-contact, temperature measurements.

The OM-CP-IRTC110 features a real-time clock module that extends the battery life to >10 years and allows for high speed downloads.

This is an all-in-one compact, portable, easy to use device that will measure and record up to 16,383 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere.

The OM-CP-IRTC110 makes data retrieval quick and easy. Simply plug it into an empty COM or USB port and our user-friendly software does the rest.

Specifications

Internal Channel Temperature Range: -40 to 80°C (-40 to 176°F)
Temperature Resolution: 0.1°C
Logger Calibrated Accuracy: ±0.5°C (0 to 50°C)

REMOTE CHANNEL

Thermocouple Type: K (Infrared, contact sales for other types)

Thermocouple Connection: Female subminiature (SMP)

Cold Junction Compensation: Automatic, based on internal channel

Maximum Thermocouple Resistance: 3000Ω

Thermocouple Type: K
Range (°C): See range chart

Sensor: ±2.0°C

Field of View: 60° (1:1)

Minimum Spot Size: 8 mm (0.3")

Spectral Response: 6.5 to 14 microns

Start Modes: Software programmable immediate start or delay start up to six months in advance

Real Time Recording: May be used with PC to monitor and record data in real time

OS36-01 infrared thermocouple, \$171, sold separately.



Memory: 16,383 readings per channel for a total of 32,766 readings; software configurable memory wrap

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6 V lithium battery (included), user replaceable

Battery Life: 10 years (15 minute reading rate at 25°C)

Data Format: Date and time stamped °C, °F, K, °R

Time Accuracy: ±1 minute/month (at 20 to 30°C)

Computer Interface: PC serial or USB (interface cable required); 57,600 baud

Software: WIN98/NT/2000/XP/VISTA 32-bit (VISTA 32-bit version only); VISTA 64-bit is not supported)

Operating Environment: -40 to 80°C (-40 to 176°F)

Dimensions: 44 x 59 x 21 mm (1.7 x 2.3 x 0.8")

Infrared Thermocouple Dimensions: 3.25 L x 1.80 cm Dia. (1.28 x 0.71"); 0.9 m (36") PFA coated unshielded stranded wire

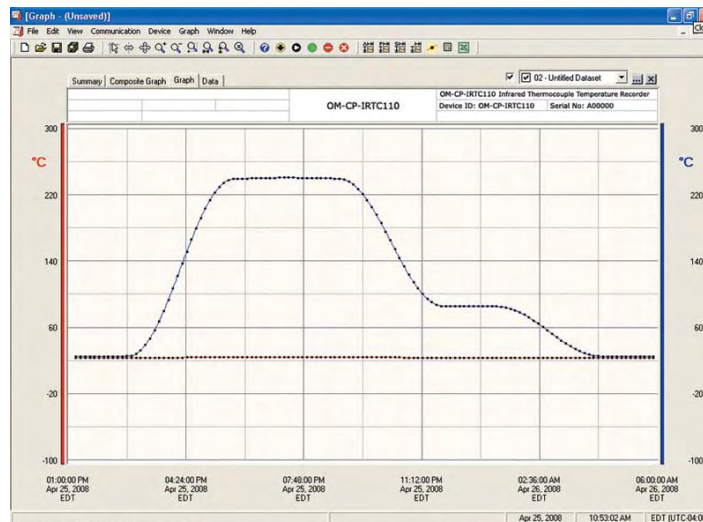
Weight: 60 g (2.1 oz)



OM-CP-IRTC110 data logger, \$299, shown actual size.

Infrared Thermocouple Range Chart

Range Code	Temperature Range (2% Accuracy)
50F	-18 to 27°C (0 to 80°F)
80F	10 to 49°C (50 to 120°F)
98.6F	16 to 39°C (60 to 102°F)
140F	25 to 80°C (80 to 180°F)
180F	70 to 104°C (160 to 220°F)
240F	95 to 130°C (220 to 270°F)
280F	125 to 155°C (260 to 310°F)
340F	145 to 175°C (290 to 350°F)
440F	170 to 250°C (340 to 480°F)



OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
OM-CP-IRTC110	\$299	Infrared thermocouple data logger
OM-CP-IRTC110-CERT	359	Infrared thermocouple data logger with NIST calibration certificate
OM-CP-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT105	12	Replacement 3.6 V lithium battery

Comes with complete operator's manual, 3.6V lithium battery and RS-232 cable. Windows software is required to operate the data logger (sold separately).

Ordering Example: **OM-CP-IRTC110-CERT**, infrared thermocouple data logger with NIST calibration certificate, **OS36-01-K-440F-SMPW**, infrared thermocouple with 170 to 250°C (340 to 480°F) temperature range, and **OM-CP-IFC110** Windows software and RS-232 cable with DB9F termination, \$359 + 171 + 99 = **\$629**.

Infrared Thermocouples

Model No.	Price	Description
OS36-01-K-50F-SMPW	\$171	Type K infrared thermocouple, -18 to 27°C (0 to 80°F)
OS36-01-K-80F-SMPW	171	Type K infrared thermocouple, 10 to 49°C (50 to 120°F)
OS36-01-K-98.6F-SMPW	171	Type K infrared thermocouple, 16 to 39°C (60 to 102°F)
OS36-01-K-140F-SMPW	171	Type K infrared thermocouple, 25 to 80°C (80 to 180°F)
OS36-01-K-180F-SMPW	171	Type K infrared thermocouple, 70 to 104°C (160 to 220°F)
OS36-01-K-240F-SMPW	171	Type K infrared thermocouple, 95 to 130°C (200 to 270°F)
OS36-01-K-280F-SMPW	171	Type K infrared thermocouple, 125 to 155°C (260 to 310°F)
OS36-01-K-340F-SMPW	171	Type K infrared thermocouple, 145 to 175°C (290 to 350°F)
OS36-01-K-440F-SMPW	171	Type K infrared thermocouple, 170 to 250°C (340 to 480°F)

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de

Deckenfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488
+44-(0)161-777-6611

FRANCE

www.omega.fr

0800-466-342

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters